



Department of Energy

ROCKY FLATS FIELD OFFICE  
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95-DOE-08485

JUN 30 1995

Mr Martin Hestmark  
U S Environmental Protection Agency, Region VIII  
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Denver, Colorado 80202-2405

Mr Joe Schieffelin, Unit Leader  
Hazardous Waste Control Program  
Colorado Department of Public Health and Environment  
4300 Cherry Creek Drive South  
Denver, Colorado 80222-1530

Gentlemen

Enclosed are the requested revised cost estimates for the various actions currently proposed for Operable Unit (OU) 1, 881 Hillside. The cost estimates for the soil excavation were prepared by Dames and Moore, based on standard industry practice. The soil excavation costs do not include any added Department of Energy (DOE) requirements, which could add other significant costs. The well drilling and sampling costs are similar to those presented in the Correction Measures Study/Feasibility Study (CMS/FS) report.

At this time, DOE has determined that the latest proposal by the Colorado Department of Public Health and Environment (CDPHE) is unacceptable (monitoring with detection limits as action levels). Contamination values are already being monitored at the French Drain which are above detection limits. It is noted that the detected contamination values are currently still under Applicable or Relevant and Appropriate Requirements (ARARs). DOE would accept the option of activating the French Drain if ARARs were exceeded at the drain sump. We feel that this action is protective of Woman Creek.

DOE appreciates the effort by CDPHE and Environmental Protection Agency in trying to resolve this dispute. However, if the above option is not accepted, DOE will go forward with the proposed "No Action" alternative, which we feel is the right direction to follow, given the low risk level to human health and the environment. If you have comments or any specific questions about the above estimates, please call Dave George, at 966-5669.

Sincerely,

Steven W. Slaten  
IAG Project Coordinator  
Environmental Restoration

Enclosure

M Hestmark & J Schieffelin  
95-DOE-08485

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cc w/Enclosure  
Admin Record

cc w/o Enclosure  
M Silverman, OOM, RFFO  
J Roberson, EP, RFFO  
J Fitch, EP, RFFO,  
D George, EP, RFFO  
A Primrose, EG&G  
M Rupert, EG&G  
B Card, K-H

## OU1 Cost Estimates

**NO Action** (Monitoring Only)

- 3 to 30 years
- 3 new wells, quarterly sampling (12 samples/ yr)
- \$372,000 - \$1,804,000

### **Institutional Controls. Monitoring, Using the French Drain**

- 30 years of water treatment
- 30 years of monitoring
- 3 new wells, quarterly sampling
- \$7,565,000

### **Soil Excavation, No Treatment, On Site Disposal (Disposal Cell)**

- 3 years monitoring-post closure
- 3 wells, quarterly sampling
- Excavation and disposal
- \$2,581,000

### **Soil Excavation, Thermal Desorption, On Site Disposal**

- 3 years monitoring-post closure
- 3 wells, quarterly sampling
- Excavation, treatment, and disposal
- \$4,837,000

### **Breakout costs:**

Well Drilling and completion	- \$16 OK ea.
Sampling	- \$1.5 k ea.
Analytical	- \$4.1 k ea

### **Summary of waters to be treated in building 891 after conversion:**

OU1	0.25 gpm
OU2	0.07 gpm
OU4	5.70 gpm
Storm water/ well purge water	3.40 gpm
Decon Pad	<u>0.19 gpm</u>
<b>Total</b>	<b>9.61 gpm</b>

Current contract costs for operation - \$108K/Mo or about \$2.50 gal.  
 These costs do not include M&O oversight costs which raise the costs to about \$5.75 gal